A  What is the recitation format for PHYS218?
   1. The recitation sessions are dedicated to engage students in problem solving, to offer guidance through the solving methods for the physics problems, and to give useful feedback on the spot.
   2. During each recitation session, students will have to solve one short problem from the material discussed the precedent week and several multiple-step problems from the current material.
   3. The short problem will be solved in a closed book individual quiz.
   4. The multiple-step problems will be solved in teams of 3-4. The solutions should be clearly written in a report by each member of the team. Each team member will receive the same grade.
   5. The form containing the problems to be solved in teams is called In-Class-Exercise (ICE). A pre-ICE containing these problems with the numerical data blanked and with some questions hidden will be posted on-line each Friday for the next week.
   6. During the ICE, each team can ask for hints or help from the instructor, but it will not be given the answers.
   7. Teams take turns for writing solutions on the white board, as assigned by the instructor. They need to explain their approach and to answer questions from the rest of the class.
   8. There are no graded quizzes during the exam weeks. Instead, students will have exam reviews.

B  What do students DO before the recitation session in PHYS218?
   1. Download the pre-ICE from the link on e-campus and get familiar with the problems proposed.
   2. Think about a solving approach and an explanation, identify the methods and equations needed, and sketch a symbolical solution on the pre-ICE form.
   3. Bring the annotated pre-ICE to class.

C  What do students DO during the recitation session in PHYS218?
   1. Discuss previous week’s correct solutions and ask for clarifications.
   2. Work in teams to find solutions for the problems in the ICE form. A graphing calculator is usually needed.
   3. Present the solution for one of the problems on the board as a team at least once during the semester, as assigned by the instructor.
   4. Take a short individual quiz from the material covered during the previous week.

D  How are the teams managed?
   1. A team is composed of 3-4 students.
   2. Teams are shuffled the week following a midterm exam.
   3. Team members are expected to work cooperatively and to contribute fairly to the final solution.
   4. Although the text book, the internet, the notes, etc. are allowed during the team work, the instructor may ban the phone/internet usage if students are not focused on problem solving or if excessive browsing.

E  What is the grading for a recitation session?
   1. Individual Quiz: Maximum=2; individual grade
   2. Team Quiz (ICE): Maximum=8; same grade for each present member of the team
   3. Recitation grade=Quiz + ICE; range: 0 to 10.
   4. Absent from the session: zero for that day.